Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 16 (cancelled)

17. (new) An orientable longitudinal structure comprising:

substantially longitudinal actuators made of shaped memory alloy, n-doped and p-doped Peltier elements and electric operating means;

said actuators being arranged in pairs and positioned antagonistically; and

each said actuator being in contact substantially at its ends with an n-doped Peltier element and a p-doped Peltier element, respectively.

18. (new) The orientable longitudinal structure as claimed in claim 17, wherein said actuators are leaves, preferably one-piece leaves.

19. (new) The orientable longitudinal structure as claimed in claim 18, wherein said leaves are one-piece leaves.

20. (new) The orientable longitudinal structure as claimed in claim 17, wherein each said n-doped and p-doped Peltier element is in contact with a partially annular conducting element.

21. (new) The orientable longitudinal structure as claimed in claim 20, wherein said conducting element is made of copper.

22. (new) The orientable longitudinal structure as claimed in claim 20, wherein each said n-doped and p-doped Peltier element is welded to said conducting element.

23. (new) The orientable longitudinal structure as claimed in claim 17, wherein said actuators, associated with the Peltier elements, are positioned diametrically opposite each other with respect to a longitudinal axis of the structure.

24. (new) The orientable longitudinal structure as claimed in claim 17, wherein said actuators are welded to said n-doped and p-doped Peltier elements.

25. (new) The orientable longitudinal structure as claimed in claim 17, wherein said actuators are made of nickel titanium (NiTi) alloy.

26. (new) The orientable longitudinal structure as claimed in claim 17, wherein said Peltier elements are made of bismuth telluride.

27. (new) The orientable longitudinal structure as claimed in claim 17, further comprising epoxy resin covering said Peltier elements including thermoelectric junctions with said actuators.

28. (new) An endoscope comprising a longitudinal body having, at its distal end, a viewing system, wherein at least part of the longitudinal body is formed using at least one orientable longitudinal structure as claimed in claim 1.

29. (new) The endoscope as claimed in claim 28, wherein at least part of the longitudinal body is formed of a plurality of said orientable structures, said orientable structures being stacked on top of one another in such a way that a conducting element of one of said orientable structures bearing the n-doped elements is adjacent to a conducting element bearing the p-doped Peltier elements of an adjacent orientable structure.

30. (new) The endoscope as claimed in claim 28, wherein the actuators of at least one orientable structure present, with the actuators of another orientable structure, deform in different directions.

31. (new) A method of manufacturing an orientable longitudinal structure as claimed in claim 18, wherein said method comprises, in succession:

preparing SMA actuators consisting in cutting leaves presenting a curved shape from a sheet of SMA, said curved shape of the leaves corresponding to a "memorized" shape;

cooling said leaves until substantially straight leaves are obtained; and

assembling said leaves obtained during the previous step with said Peltier elements, said assembly step consisting in incorporating said leaves between said n-doped and p-doped Peltier elements.

32. (new) The manufacturing method of claim 31, wherein said cutting step comprises cutting said leaves from a sheet of SMA made of NiTi.

33. (new) The manufacturing method as claimed in claim 31, further comprising assembling said Peltier elements with partially annular conducting elements.

34. (new) The manufacturing method as claimed in claim 31, wherein the assembly steps comprising welding said leaves to said Peltier elements.

35. (new) The manufacturing method as claimed in claim 31, further comprising pouring resin to cover said Peltier elements, including thermoelectric junctions with said actuators.